

Applied  
Machine Learning

and AI. Scientific  
Computing for Business

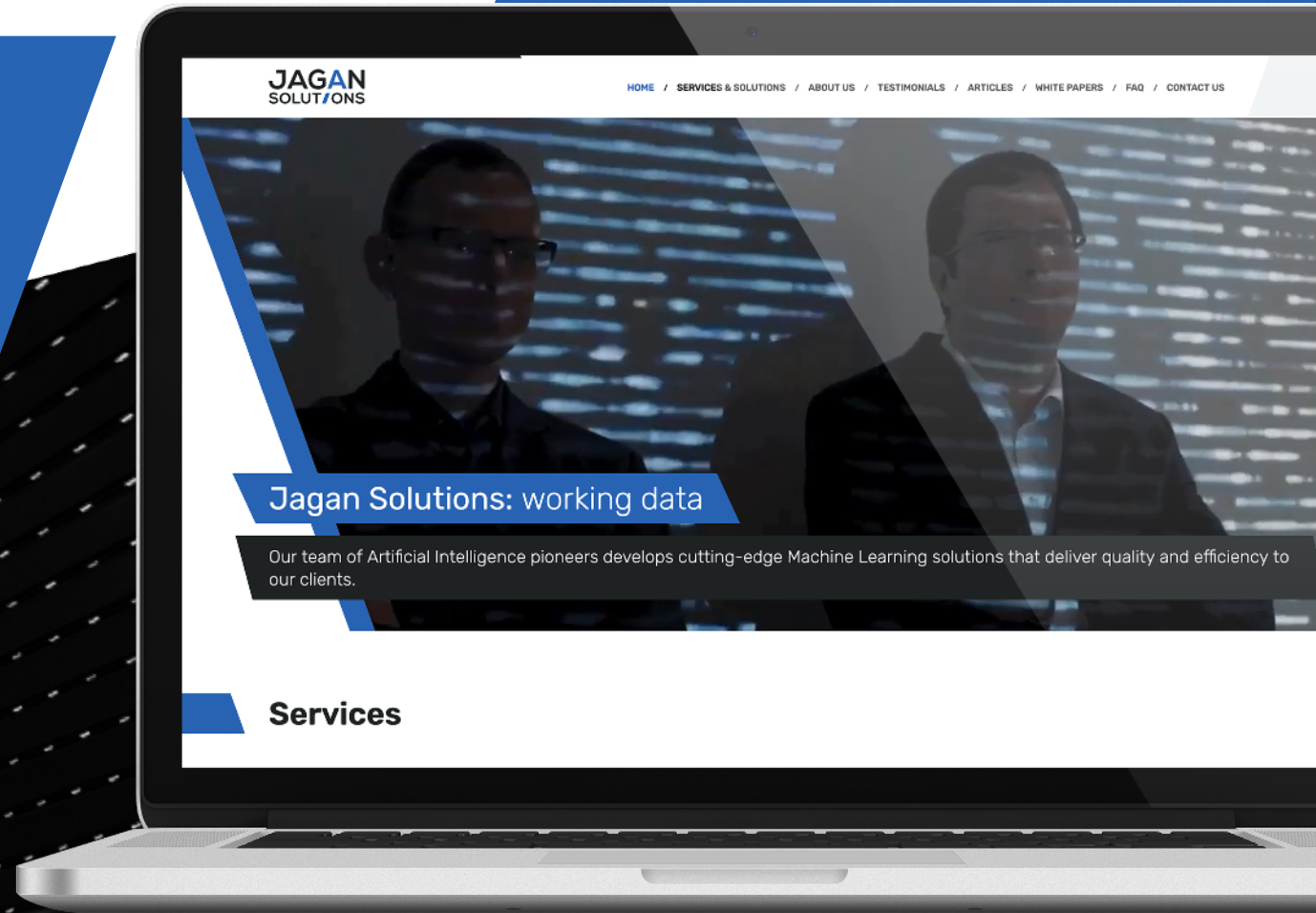
Jacek Aleksander Gruca



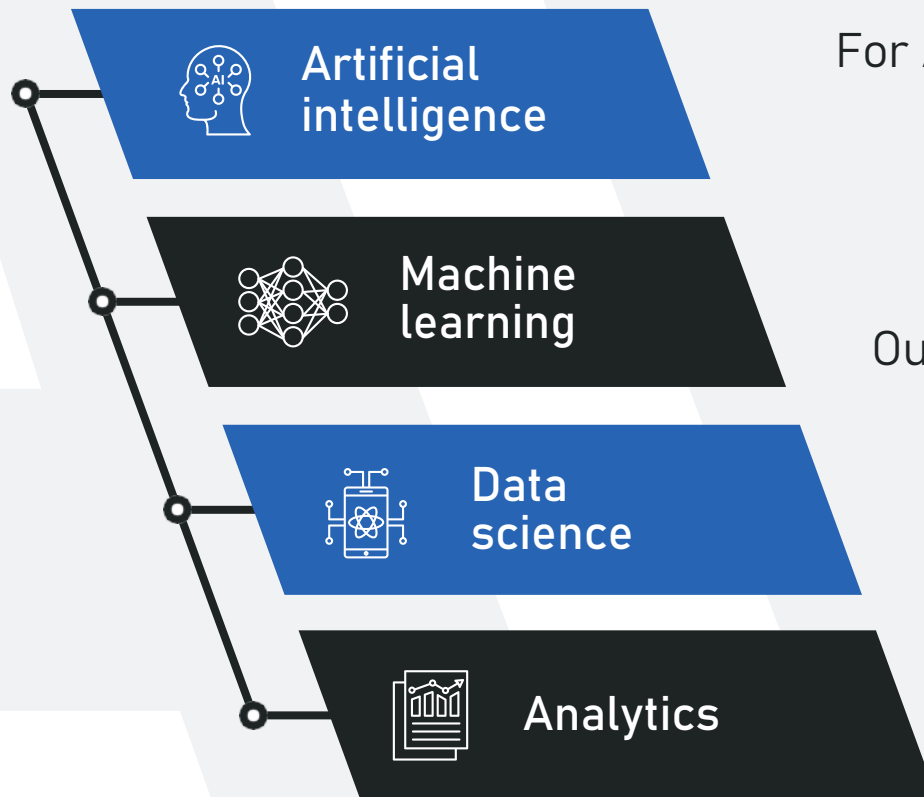
Find out what we can do  
for your business

Jagan Solutions: working data

Our team of Artificial Intelligence pioneers develops cutting-edge Machine Learning solutions that deliver quality and efficiency to our clients.



Find out what we can do  
for your business



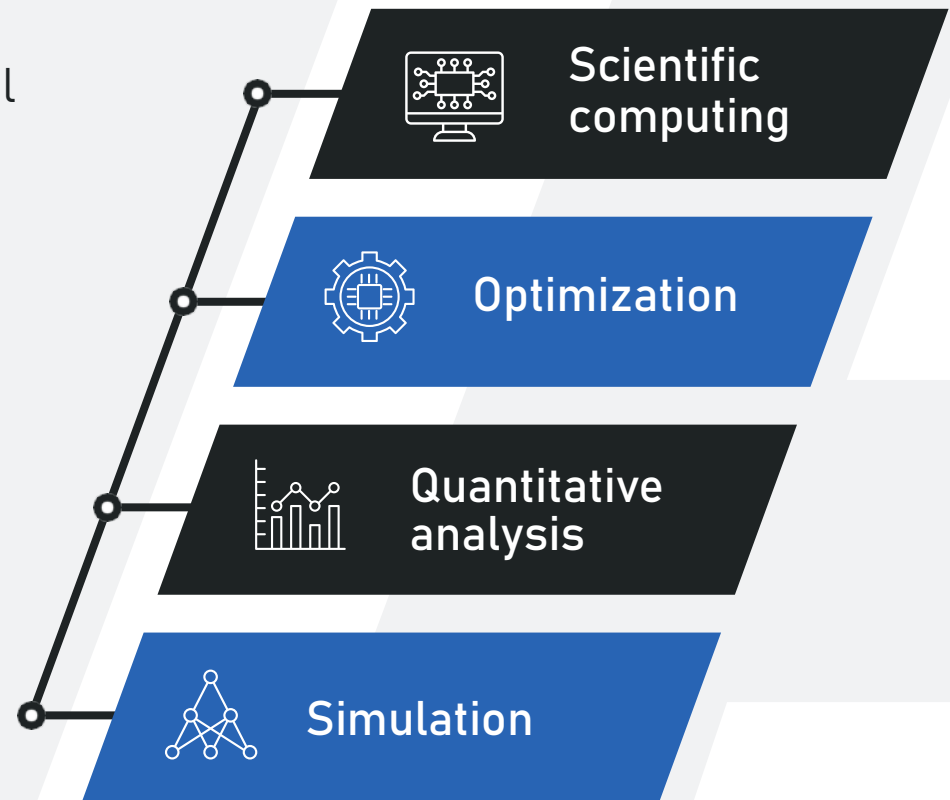
For AI and Machine Learning we use Deep Neural Networks and deliver solutions in Predictive Modeling, Natural Language Processing, GPTs and Computer Vision.

Our Data Science & Analytics capability delivers value from your data, be it financial, location, health, pharmacological, energy or any other type of data.

Find out what we can do  
for your business

We provide solutions which compute the minimal cost or risk, alternatively, the maximal revenue or income, by employing advanced Scientific Computing algorithms that are state of the art in the domain of Optimization.

We also carry out Quantitative Analysis to support your decisions and can run Simulations of various industry processes.



Find out what we can do  
for your business



Integration with  
your infrastructure

As we practice the art and science of Machine Learning, AI, Optimization and much more, we learn about your systems in order to tailor the delivery of our software to your needs. We adapt to both cloud-based and in-house systems.



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for your business

## Solutions



Creditworthiness  
Assessment



NLP of Unstructured  
and Semi-structured Data



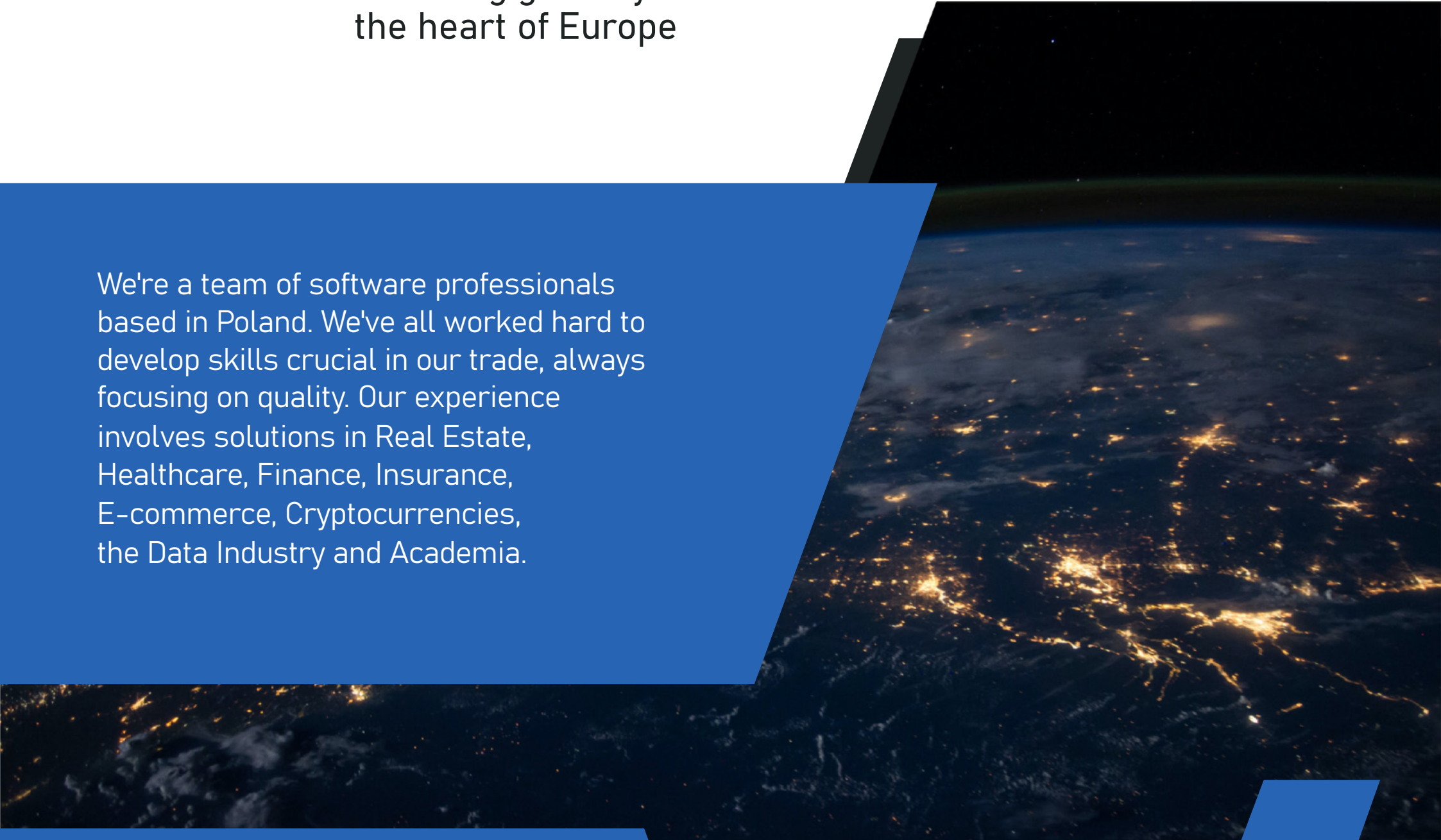
Fraud Detection  
in Health Insurance



Computer Vision  
Face Reenactment

Reaching globally from  
the heart of Europe

We're a team of software professionals based in Poland. We've all worked hard to develop skills crucial in our trade, always focusing on quality. Our experience involves solutions in Real Estate, Healthcare, Finance, Insurance, E-commerce, Cryptocurrencies, the Data Industry and Academia.



Reaching globally from  
the heart of Europe

We are open to challenges in any industry. We will provide technology recommendations along the way.

We believe that trust, diligence and a can-do attitude promote business opportunities. We are dedicated to turning those opportunities into our clients' success stories.





# About Us

Our experience involves software solutions in:



Finance



Insurance



Healthcare



E-commerce



Crypto



Data Industry



Watch two of our team members  
in a bit of our daily routine

**Jagan Solutions  
at work**

 [Watch our video](#)



## Natural Language Processing of Unstructured Data

### Case Study 1

We delivered this Machine Learning NLP (Natural Language Processing) solution to a client from the data industry based in State of Washington, USA. Our client's users requested data by submitting a CSV (Comma Separated Values) file with a list of individuals and their accompanying information.

The application returned specific data for these individuals:  
address, phone number,  
postcode, etc.



## Natural Language Processing of Unstructured Data

### Case Study 1

Our task was to preprocess these semi-structured CSVs by converting them to contracted format, which could be further processed by the backend.

We used TensorFlow, Google Cloud Platform, Jupyter Notebooks, GPU computations, Docker and more in this Python project.

We carried out diligent Model Tuning and managed to achieve 99% accuracy for the Machine Learning model in question. To top it all off, we received great feedback from our client.

## Creditworthiness Assessment for Lender

In this optimization project we built software which performed Creditworthiness Assessments based on hundreds of parameters included in loan applications for a popular motorcycle brand. In the process we created an algorithm which calculated the risk involved with each loan. The goal was to suggest modifications of the loan applications, which would adjust them so that they represented good risk for the expected Return.

### Case Study 2



## Creditworthiness Assessment for Lender

We successfully developed this algorithm through reverse engineering a calculation document provided and subjected it to elaborate automated testing. We used Linear Programming and Linear Optimization in this Python and NumPy/SciPy project for a client based in California and Texas.

### Case Study 2

Jagan Solutions did an amazing job on our machine learning project, which involved taming free structured CSV files. Their work culminated in a fantastic, complex ensemble model that extracts dozens of data points from unstructured and semi-structured data without human intervention. Perhaps the most stand-out part of the work is the documentation. They put together a truly comprehensive, zero-to-complete-understanding guide to the entire process, from exploratory data analysis to running, deploying, and even updating the model. FANTASTIC!

I'm really glad to have worked with Jagan Solutions! I intend to return for new model construction when the time is right, and I know that you'll also be happy in your partnership with them.



**William Flynt**  
Ivy Data



We hired Jagan Solutions for 3 different projects. And on each of them we were 100% satisfied not only with the development of the requested software, but also with the project management and team dynamics. Although project specifications changed drastically between the beginning of the development and the end at times, the team was always flexible, recommended the best way to the desired result and followed it through.

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▶ **STREAMSTER**

**Sergiy  
Yashchenko**  
Streamster





I am extremely impressed by the quality of the services I received from Jacek and Jagan Solutions. We started off with a goal and needed to refine and build towards a specific solution, and Jacek was on schedule, punctual, reasonable prices, professional throughout the project. The project was delivered on time and I will be able to integrate it into a bigger project. I want to thank Jacek and Jagan for the wonderful job they did, and look forward to working with them again!

**Guyi Shen**  
Seven

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**JAGAN**  
SOLUTIONS

 [www.jagansolutions.com](http://www.jagansolutions.com)

**Thank you  
for your time**

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